

# OGUZ TECIRLIOGLU

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## EDUCATION

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**University of Manchester / BEng (Hons) Aerospace Engineering**

Sept 2018 – June 2021

**First-Class Honours** expected

Modules: Fluid Mechanics (75%), Structures 1 (79%), Elec. Supply & Circuits (72%), Mod & Sim2 (72%)

### Projects:

#### – Personal Portfolio Website (self-initiative):

Using HTML, CSS & JavaScript, I created my own personal portfolio, which is hosted on GitHub. Learnt the fundamentals of responsive web-design, using Bootstrap & implemented logic in JavaScript for the simple games on this website. Additionally, I have used React.js, Node.js and Express for other projects that queried a MySQL database. These projects have similar functionality as a to-do list.

#### – Deep-Learning for Scaled Structural Analysis (Final Year Project):

My projects aim is to predict plastic deformation in scaled models using deep learning. This is done using the new Finite Similitude Theory and TensorFlow in Python. Having generated the scaled simulation, I have automated the simulation software using Python, and will use the data created to train the algorithm.

#### – Bank Account App (self-initiative):

Built a console application that allows users to create, update the balance of, view and delete bank accounts. Used C++ to create the app and got familiar with OOP. Currently extending the functionality, so that accounts can buy stocks. Once stocks are bought, a desired portfolio distribution can be set. The app updates stock prices, balancing the portfolio each time, and prints out which stock was bought and sold.

**Bilkent Laboratories and International School / 89% Overall** | High Honours Certificate on all years

#### – Completed the International Baccalaureate:

Higher Level: **Mathematics with Calculus (6/7), Physics (6/7) and Economics (6/7).**

IGCSE: **Mathematics (A\*)**, Sciences [Physics, Chemistry, Biology] – Double Award (AA)

Volunteered at a disabled children's hospital every weekend.

High Honours certificate 4 years in a row

## WORK & EXPERIENCE

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**Japan Tobacco International (JTI) (5 weeks) - Quality Control Intern**

Aug - Sept 2019

- My role was to focus on errors in production and take initiative in amending them.
- Collected samples from each machine, analysed them and worked on a project that investigated the relation between errors machines made and pinpointed the root cause.
- Prepared a presentation highlighting key errors & their causes.
- Made continuous use of Excel and Pivot tables to analyse a large amount of data, drawing relationships.
- Proved that I can learn new skills quickly.

## PASS Leader

Sept 2020 - Current

- Led weekly meetings with 15 students, helping them adjust to first year in University.
- Learnt how to facilitate conversation and exchange ideas between a large group of people.
- Resolved conflicts between the University and students, by communicating with the two groups effectively.

## Conceptual Aerospace Systems Design

Oct – January 2020

- Chief Engineer of a group of 6. Created sizing sheets and systems model relating mass, energy consumption & volume of a Low-Earth orbit wildfire observation satellite. Resolved group challenges.

## TECHNICAL SKILLS

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- Languages: **JavaScript, TypeScript, HTML & CSS, MATLAB and C++ (Modern C++)**
  - Being self-taught, in addition to doing project, also studied fundamental data structures & algorithms, implementing them in C++
  - Completed a course on Computer Architecture offered online by Princeton University.
  - Familiar with GitHub & Git.
- Frameworks/Libraries: **TensorFlow.js, React.js, Bootstrap 5,**
- Tools: **Git, Node.js, LabVIEW, MySQL**
- CAD & Simulation: SOLIDWORKS, ANSYS, ABAQUS, Fluent CFD Package.

## INTERESTS

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- **Royal Aeronautical Society (Affiliate)**

Keeping up to date with the latest aerospace news and attending webinars & online conferences regularly.
- **Equity Trading**

I have strong interest in the financial markets and cryptocurrency. Have been trading my own portfolio for the past year. I have gained experience hedging risk, utilizing technical indicators, and conducting fundamental analysis for evaluation.
- **Model United Nations (MUN)**

Improved public speaking and debating skills, active leadership and learning to quickly brainstorm for a solution.
- **Varsity Basketball Team**

**Captain** of the team in senior year.

Enjoy all team-sports, casual or competitive.
- **Hyperloop Manchester**

Structural design engineer in the Hyperloop team. Created the design for the outer shell of a vehicle that goes 1200 km/h, and selected materials according to design criteria.
- **Other Interests:**

Rowing, Windsurfing, weightlifting, running and rock climbing are all physical things I enjoy doing.

Languages: Turkish (Fluent), English (Fluent, TOEFL 109/120), Spanish (DELE A2), Serbian (Beginner).